

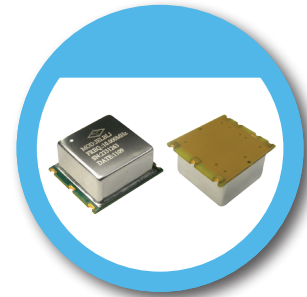
## 25.4 x 22.1 Oven Controlled Crystal Oscillator – NJ Type

### FEATURE

- Dimension 25.4 x 22.1 x 11.0 mm typical.
- SC Cut Crystal.
- High stability ; Low Phase Noise.
- Packing: 40pcs/Box, 5 Box/Carton, 200pcs /Carton

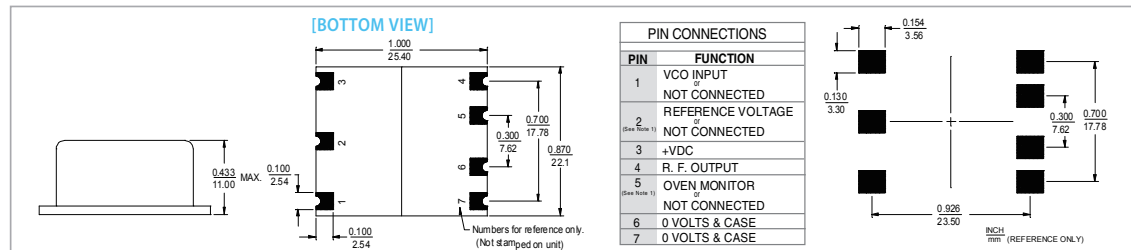
### TYPICAL APPLICATION

- SDH/SONET, Telecommunication base station
- Test and measurement equipment
- Aerospace
- Synthesizer, Digital switch, Reference Timing Circuit



**RoHS Compliant Standard**

### DIMENSION



### ELECTRICAL SPECIFICATION

Parameter	Min.	Nominal	Max.	Unit	Test Condition
Output	Frequency	10		MHz	
		CMOS			
	Wave Form	2.4		V	
	Level "1"		0.4		
Frequency Stability	Level "0"			pF	
	Load		-70	dBc	
	Spurious				
Frequency Stability	Ambient		±30	ppb	Referenced to +25°C
	Operating Temperature	0	+70	°C	
	Aging				
	At time of shipment		±1.0		
	After indefinite storage - Daily		±1.0		After 30 days
	- Yearly		±100		
	- 10 years		±350		
	Voltage		±10		±5% Change
	Warm-up		±20		In 5 minutes @ +25°C (Referenced to 1 Hour)
	Phase Noise @ 10 MHz		-115	dBc	@ 10Hz
Electrical Frequency Adjustment			-135		@ 100Hz
			-140		@ 1KHz
			-140		@ 10KHz
Electrical Frequency Adjustment	Range	0.4	1.0	±ppm	
	Control	0.0	2.8	V	
	Slope		Positive		
	Center	1.0	1.4	V	Control Voltage at which nominal Frequency occurs at time of shipment
Input Power	Input impedance	100		KΩ	
	Voltage	3.14	3.3	V	
	Current		3.46	W	@ turn on
Reference Voltage	Steady state		3.0		@ 25°C
			1.0		
Reference Voltage	Voltage	2.72	2.8	V	Optional 4.0V (Note1), 5.0V (Note2)
	Load	9.0	2.88	KΩ	
Temperature Stability			∞	VDC	
			±0.01		

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

Note 1: For all +5.0V input power units. Note2: For all +12V input power units.

\*All aging stabilities are after storage of up to 1 year and apply after 30 days of continuous operation.

The daily aging rate also applies at the time of shipment from factory.

\*The Electrical Frequency Adjustment Range is sufficient for the life of the oscillator. Specification subject to change with frequency.

Available Frequency Range: 5MHz to 40 MHz including 5.0, 10.0, 16.384, 19.44, 24.576 and 32.768 MHz

### FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppb	±3	±5	±10
0 ~ +70		○	○	○
-20 ~ +70		△	○	○
-40 ~ +85		×	△	○

\* ○: Available △: Conditional X: Not available